The Carbons in the Glass Globes

Let us next turn to the glass blow-ing department, where hundreds of girls are employed in all the delicate and skillful manipulations involved in the glassworks of these lamps.

e first step is to take two minute preces of platinum wire, one end of each having been shaped into a little socket capable of holding the enlarged end of the carbon filament; and after mounting them in a small lathe chuck, to wind melted glass from a glass rod, heated in a glass blower's lamp, around these platinum wires until they are for some distance imbedded in glass and formed into a structure such as is seen at the lower part of the ordinary incandescent lamps. Into these lamps and platinum supports are then inserted the large ends of the carbon filament.

In the meantime small glass flasks, made by the thousands at the glass works, are passed through a variety of manipulations by which a small glass tube is attached to what would be the bottom of each flask, and its neck is shaped so as to receive the glass socket carrying the platinum wires and carbon filament. At the proper time this socket is dropped into the prepared flask, and by manipulation with the glass blower's lamp and a sleight of band which is simply manyelous. of hand which is simply marvelous, the glass socket, with its carbon filament and connecting wires, is sealed, by fusion of the glass itself, into the neck of the flask. The girl holds in her left hand the glass flask by the glass tube which has been attached to it, and in her right hand the shears with which she at times holds and shapes the glass socket and neck of

glass tubes before mentioned to radi-ating glass connectors, and these in turn are attached to the pumps, while are made so that currents can be sent through the filaments of the lamps while they are being exhausted by the pumps.—President Henry Mor-ton in Scribner's Magazine.

Bear Shooting in India.

I was once present at a great fair at the capital town. While at its height a bear was viewed on the neighboring so prevented my getting a shot. Presently he rushed forth, and, passing a grain dealer's shop, he gave the owner a slap on the face and passed on, but that slap took out a semicircle of his jaw with seven teeth attached! The man's nerves were so little affected that he presently held up the piece of jaw for our inspection when we visited him at the hos ital, and he was at his work again in a 'ew days.

The bear was soon dispatched after

he left the poor grain dealer. T ough the deadly wound I gave the bear failed to stop him, I was more fortunate with another bear which I got a shot at going at full gallop, and I rolled him over with one shot, so that he never moved again. He was a big one, but doubled up just like a rabbit. Stalking bears is just a trifle tame,

as they are so easily approached and afford so large a mark, but driving them is more exciting. There is all the excitement of noise and numbers, and it is more discult, of course, to hit them. 'ue i malayas we had! some wonders ... spo. for bear driving. In one drive ten bears were secured.

A quaint old planter used to join us in these battues. He had a perfect armory of guns and rifles, but none of them modern or precise. He used to take his blacksmith out with him, who would on the spot adjust the who would, on the spot, adjust the bullets to the required gauge, and hammer them home when a tight fit! His many and erratic weapons caused us more anxiety than the bears. He had a way as claiming as his trophies all that were shot. He could not tell, I suppose, what he had not hit!—Murray's Magazine.

How to Keep Eggs. such eminent savants as Musschen-broek, Reaumur and Nollett have greatly contributed. They all agree that the most practical method is to that the most practical method is to envelop the new laid egg in a light coating of some impermeable substance, such as wax, tallow oil or of olive oil and tallow. Reaumur suggested an alcoholic solution of rosin or a thick solution of gelatine. Nollett experimented successfully with lett experimented successfully with India rubber, collodion and various kinds of varnish. At the dairy prod-uct show at Agricultural hall in 1884, uct show at Agricultural hall in 1884, three prizes were awarded for eggs preserved in the following manner:

1. Eggs which had been dipped twice in a solution of gum arabic and then dried, enveloped in paper and kept in bran.

2. Eggs which had been rubbed in lard and then kept in dry salt.

3. Eggs coated with a composition of 3. Eggs coated with a composition of mutton and beef suet and then wiped by a dry cloth.—Popular Science Monthly.

Riding Turtle Back.

One principal difference between a wise man and a fool is that a wise man knows how to adapt himself to circumstances. What shall be said, then, of a frog of which The Hartford Courant tells this story?

At a Mulberry street restaurant a large green turtle and a frog are inmates of the fountain tank.

A frog cannot always remain under

- A frog cannot always remain under water, and there is no chance for the fellow in question to reach a landing place on the side of the tank; but he has discovered that the top of the turtle's back is out of the water, except when the turtle dives. So he mounts the back and rides around the tank with an air of owning the whole busi-

wims around until the back comes to the surface again, when he again mounts and continues his trip. It is a funny sight.

A Safe Investment

Is one which is guaranteed to bring failure a return of purchase price. On this safe plan you can buy from our advertised Druggist a bottle of Dr. King's New Discovery for Consumption. It is guaranteed to bring relief in every case, when used for any affection of throat, lungs or chest, such as consumption, inflammation of lungs, bronchitis, asthma, whooping cough, croup, etc., etc. It is pleasant and agreeable to taste, perfectly safe, and can always be depended upon. Trial bottles free at Budwell & Christian's drug store. yousatisfactory results, or in case of

The mineral springs discovered in Ashe county, N. C., from which comes the -CELEBRATED-

8 to 10 a. m., 12 to 1 p. m., 3 to 4.30 p. m., 7.30 to 10 p. m. sep24 6m Has been a blessing to the afflicted of this land. This water is no com C. R. FRENCH, pounded nostrum, but is a natural medicine, flowing from the earth, and, therefore, can be used with perfect faith in its medical qualities. It has been analyzed by competent chemists, and found to contain 52 per cent. more ROANOKE, - - VIRGINIA.

Office, No. 9 Third avenue S. W., second floor. P. O. Box, 31. Surveys, plans and estimates made on short notice. arsenic than any water tested

IT WILL CURE

Bright's disease, rheumatism, syphillis, erysipelas, old sores, ulcers, tetter, salt rheum, scald head, eczema, skin diseases, female diseases, dyspepsia, ner

vousness, heartburn, restlessness, etc.

This water can be taken internally and applied externally.

It will remove pimples, blotches and all eruptions on the skin by simply moistening the skin with it two or three times a day.

Science has never produced a compound that will equal its effects in cleansing and heavitying the skin.

Persons who feel the need of a spring tonic or blood purifier will be charmed with its effects. It is confidentially recommended to any one suffering with kidney diseases, rheumatism, neuralgia, nervousness, general debility, chronic sore eyes, syphilis, old sores, ulcers, erysipelas, dyspepsia, and a large number of diseases too long to enumerate. It is a boon to women afflicted with the various forms of female diseases.

From Numerous Testimonicle the Fellowine sort of the feet o

From Numerous Testimonials the Following are Appended TWENTY POUNDS IN THIRTY DAYS.

ATTORNEYS-AT-LAW.

Will practice in the courts of Roanoke city and county and counties adjoining. Will attend the courts of Roanoke and Botetourt regularly. Office—Salem Avenne, opposite Stewart's Furniture Store. Reanoke, Va. Gentlemen:—It gives me much pleasure to say a word in behalf of Ashley's Bromine and Arsenic Water. I had been a sufferer for some time from an ulcerated mouth, which would yield to no treatment whatever, until I began the use of the Arsenic Water, and after using it for three weeks, both externally and internally, I was entirely well. My general health was very greatly improved, and I gained twenty pounds in a single month. Too much good cannot be said of this water. Very truly,

J. B. CLAYTON. S. F. & W. Ry., Whigham, Ga.

BIARRHEA BANISHED.

DIARRHEA BANISHED. TYLER, Texas, June 6, 1889.

the flask.

The next thing to be done with the lamps is to exhaust them. For this purpose they are attached by the small purpose they are attached by the small failed. Yours truly.

Ashley's Bromine and Arsenic Springs Co: Bristol, Tenn.

Gentlemen:—I used your water last summer in an obstinate case of mucus diarrhoea and I found speedy and permanent relief where physicians had give the physicians had give the

DYSPEPSIA BEGONE.
MAXIA, Texas, May 26, 1889. at the same time electric connections | Secretary Ashley's Bromine and Arsenic Spring Co.

Dear Sir:—I write to say I have been suffering with dyspepsia for several years, the paroxysms from which have been very severe indeed. I was induced by your agent to try the Ashley's Bromine and Arsenic Water, and duced by your agent to try the Ashley's Bromine and Arsenic Water, and after using less than two cases I find myself entirely well, and can eat anything without the slightest inconvenience or trouble on account of indigestion. Before using the water I had often felt that I should never be well again, but am happy to say I feel like a new person altogether; for which I am very thankful to you and your agent, Mr. Byrd.

Very respectfully,

MISS SALLIE MYERS. Graduate of the Royal Institute of fine

The water is put up in cases of twelve half-gallon b-t-

hillside. I hurried up with my rifle and shot him from above between the shoulders, but, instead of dropping. The rushed headlong into the middle of the fair and squatted in a bush. The people foolishly crowded round and so prevented my getting a chot. Proc.

Lyle & Co. are the local agents at Roanoke. Headquarters, Bristo C. Lyle & Co. are the local agents at Roanoke. Headquarters, Bristonn. This water furnished free to hotel guests at Hotel Fairmount, Bri tol, Tenn.

Winter is coming and everybody should prepare for it.

° CLARE & READ Pocahontas Lump Coal Thorough examination of the eyes and

---AND---

DRY WOOD. CHE P AS THE CHEAPEST.

PROMPT DELIVERY.

CHURCH AND ROANOKE STS.,

Roanoke, Va. TELEPHONE NO. 70.

10-6m SPECIAL NOTICE.

Having sold the stock and good will of my store on Norfolk avenue to Mr. J. P. Ellington, I take this method of notifying all indebted to me to call To the solution of the problem of and settle their accounts at once and how to keep eggs the experiments of ave me the necessity of placing themll

W. P. CAMP,

We offer for sale, on the spot and to arrive, the cargoes of the steamers Stanmore, Darwin, Empire, and Mascotte, consisting of 42,000 SACKS BEST LIVERPOOL FINE FAC TORY-FILLED DAIRY SALT, Deakin's, Buckiey, Franklin, and Herbert's brands. Also, 10,000 SACKS LIVERPOOL GROUND ALUM SALT. All of our direct importation. This is of our direct importation. This is the BEST ENGLISH salt, and is reliable. We caution both dealers and consumers against American salt packed in oreign sacks in IMITATION of English ture by applying at Berlin's Auction salt.

DAVENPORT & MORRIS. Richmond, Va. dec1 2w

HENRY M. DANIEL Sec'y. & Treas. J. F. BARBOUR, President. N. PARTEE, Superintendent. Gen'l M'g'r.

CONSTRUCTION KUANUKE -AND-

Improvement Co.

Office in Citizen's Bank.

The construction of stores, warehouses, hotels and public buildings a specialty for cash or on time when well secured.

Persons desiring to buy homes at low prices on monthly payments will find it to their advantage to see us be-

A POSITIVE For LOST or FAILING MANHOOD; General and NERVOUS DEBILITY CURE Weakness of Body and Nind: Effects of Errors or Excesses in Old or Young, School, New LAYBOOD Bull Restored. Her to Enlarge and

MR. PHIL. KNAPP, -THE-

Eminent Optician of Staunton, Va., is at Roanoke for a short time.



accurate adjustment of glasses. Examination free. Glasses as cheap es \$2.50 per pair.
Office at Maury Brothers photograph The Citizens Bank of Roancke

rooms, Salem avenue. REFERENCES.

STAUNTON, Va., Aug. 23, 1889. We have investigated Mr. Phil. Knapp's method of testing the vision, and we endorse it as the proper method employed for accurately and scientifically adjusting glasses to the eyes.
We know Mr. Knapp to be a com-

We know Mr. Knapp to be a competent and reliable optician and as such we recommend him to our friends and the public:

Hy. M. Patterson, M. D.

Jno. St. P. Gibson,
A. M. Henkel,

Accounts of banks, bankers, corporations, merchants, and individuals solicited. Our facilities for doing a general banking business are equal to to any banking house in Virginia. Collections a specialty and prompt remittances made. Interest allowed on time deposits — m18-6m

A. M. Henkel, H. H. Henkel, J. M. Hanger, B. P. Reese, B. M. Atkinson, Jno. W. Harris. J. Breckinridge Catlett, " T. W. Shelton, F. L. Henkel. nov13-d-w1mo.

A Good Team of Horses

For Sale Cheap.

We have for sale privately, for the next five days, a good, strong team of horses, wagon and harness.

Also, a very fine suit of furniture. (10 pieces,) walnut. Cost \$175 only a few months ago, as good as new, which will be sold at a sacrifice. Anyone wishing a good suit can see the furni-

House BERLIN & WORKMAN, General Auctioneers.

Auction sale of furniture, stoves, etc., on the lot at the market house every Saturday at 10 o'clok a. m. Consignments of all kinds of articles solicited for these sales.

CONTRACTING

Railroad Work,
Street Grading,
or Excavating of Any Kind,
Either in Earth or Rock,
by the Yard or on
Force Account. Force Account. have ever worn. Respectfully,
I now have a road machine espe-

GRAVES SIMS,

P. O. BOX 20, - ROANOKE, VA the wonderful change that has come

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Book full ware and Housefurnishg GOODS.

roofling and Spouting and Plumbing and Gas Fitting a specialty.

Office over Lyle's drug store, corner Salem jy24-1m JEFFERSON ST., ROANOKE, VA

PROFESSIONAL.

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Physician and Surgeon, Offers his professional services to the citizens of Roanoke.

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Roanoke, Va.

ATTORNEYS-AT-LAW,

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Cours - Roanoke and adjoining

OFFICE: Corner Commerce street

8. GRIFFIN. J. ALLEN WATTS. GRIFFIN & WATTS;

ATTORNEYS-AT-LAW,

Roanoke, - - - Virginia.

DOGERTON S. ROGERS,

B. BARBOUR,

at Waller P. Huff & Co's

in all parts of the State.

E. M. HENCKEL, CIVIL ENGINEER,

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arts, Rome, Italy.

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Plans and Specifications prepared. Es-

timates furnished aree. First-class

work a specialty. Fatronage solicited. References given. Leave orders

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CIVIL AND MINING ENGINEERS,

Surveys, Plans and all Branches of Engineering Attended to Promptly. No. 9 Jefferson street, S. W.

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Salem Avenue, between Jefferson

and Henry Streets.

Commercial Bank, Roanoke, Va.

JOHN OTT, Cashier. Late cashier
City Bank, Richmond, Va.

Accounts of banks, bankers, corpor-

CLEANING and REPAIRING

You will save money by bringing

E. Walsak,

your dirty clothes to be cleaned or

dyed and repaired to me. Charges

Corner Campbell and Henry streets

Roanoke, Va.

COMPANY.

VINTON EXTENSION.

DUMMY LEAVES EVERY HOUR from corner Jefferson street and

Norfolk avenue. On and after Sunday, December 8, 1889, the fares will be as follows:

City limits..... 5 cents.

Tickets can be purchased at reduced

J. F. CHRISTIAN,

General Manager.

rates by applying to the conductor, or at the office of the Company (Didier

Statesman.

and must say they are unequaled in

clearness and brilliancy by any that I

A Business Man's Clear Vision.

NEW YORK CITY, April 4, 1888.
Mr. A. K. Hawkes—Dear Sir: Your
patent eye glasses received some time

DENTIST. Roanoke, Va.

oke, Va.

DR. T. W. CROZIER,

JOHN B. GORDON,

Governor of state of Georgia.

MR. A. K. HAWKES-Dear Sir: The

moderate. Work first class.

J. B. LEVY, President. Late cashier

ROANOKE, VA.

LUCIAN H. COCKE.

Botetourt county. Roam WOODS,

JOHN E. PENN

ounties.

DENN & COCKE.

ar I Salem avenue.

For this quarter and

GAS BILLS for month of November are now due Office over Budwell and Christian's.
Entrance No. 6 Salem (First) avenue.
—OFFICE HOURS—

and payable at company's office. If paid before the 10th instant a

discount of 121 per cent. allowed. No discount on bills paid after the 10th instant.

Failure to receive a bill does not entitle consumer to the discount.

Lime for Fertilizing and Disinfectng, also Gas Tar for sale.
Applications for extensions, improvements, taps, purchases and all other matters relating to Gas or Water should be made to Smith's new Building, Salem avenue,

FRANCIS T. BRINKLEY, Superintendent

ROANOKE GAS AND WATER CO No. 11 Third Avenue, Southwest

NORFOLK & WESTERN RAIL ROAD. Schedule in effect Nov. 25, 1889. WESTERN DIVISION.

LEAVE ROANOKE.

9:00 a m. Daily; arrive Bristol 3.00 p m. Stops at all stations, connecting at Radford with trains on New River Branch; arriving Pocahontas at 2:40 p m. Daily, arrives Bristol 11:20 dummy line.

pm, connecting with E. T., V. & G. R. R. for all points south and west; \$75 to \$200. Sole agents. has Pullman Palace Sleeper, Roanoke to New Or leans, via Calera and Roa-noke to Memphis without

change. 7:35 am. Daily, arrive Radford 8:45 a m, connecting with New River Branch; arrives Po-Bristol 12.15 p.m., connects with E. T., V. & G. R. R. for all points south and west; has Pullman Palace Sleener from Branch to Sleeper from Roanoke to New Orleans without change.

EASTERN DIVISION. LEAVE ROANOKE.

10:10 a m. Daily; for Lynchburg, Petersburg, Richmond, via Petersburg and R. & P. R. R., and via Burkeville and R. & O. R. R., Norfolk and intermediate points; connects at Lynchburg with V. M. R. R. for Washington and the east, leaving Lynchburg
12:30 p m daily arrives
Norfolk 6:15 p m connecting with steamer lines to
Baltimore and New York.
2:30 p m. Daily; for Lynchburg and
intermediate stations. intermediate stations

12:10 a m. Daily; arrives Lynchburg
2:00 a m, connecting with
V. M. R. R. for all points
north, arriving Washington 10:00 a m; arrives Petersburg 6:00 a m; arrives Richmond, via R. & P. R. R., 7:12 a m; arrives Nor-

R., 7:12 a m; arrives Norfolk 8:40 p m;
Cripple Creek Extension—Leaves Pulaski 7:00 a m. Daily except Sunday, and 3:00 p m. Daily, arrive Ivanhoe 8:30 a m and 4:30 p m. Returning leave Ivanhoe 9:30 a m. Daily except Sunday, and 5:20 p m. Daily; arrive Pulaski 11:00 a m and 6:50 p m.
All enquiries as to rates, routes, etc., All enquiries as to rates, routes, etc., promptly answered.

W. B. BEVILL,

Gen'l Pass, and Ticket Agent. CHAS. G. EDDY, vice-president. General Offices Roanoke.

S. F. TYLER, Receiver. Schedule in Bffect November 24, 1889.

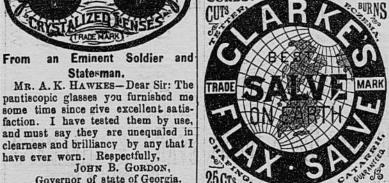
ARRIVE AT ROANOKE. 5.00 p. m. Daily-Memphis Express from Hagerstown and the north. Through pullman sleeping cars from New York and Philadelphia to

Memphis.
Daily— New Orleans ext 7.20 a. m. Daily— New Orleans express from New York, Philadelphia and Baltimore, making connection through to the south. Carries through Pullman palace buffet sleeping car from Philadelphia to New Orleans without change

ROANOKE STREET RAILWAY 12.05 Mid- Daily-Baltimore express from all points south ar-lrive in Washington 11.45 rive in Washington 11.45
a m; Baltimore 1.00 p m;
Harrisburg, 11.50 a m.
Philadelphia, 3.15 p m.
Carries Pullman palace
buffet sleeping car from
New Orleans to Philadelphia without change.
Daily-New York and
Philadelphia express,
from Mobile, Memphis,
Chattanooga and all 1. ' p. m.

Chattanooga and all points south. Arrive Philadelphia 4.20 a m. New York, 7.10 a m; Sleeping cars through to New York via Harrisburg. Ticket agents will furnish all infor-

nation and through schedules upon application to O. HOWARD ROYER. G. P. & T. Agent, Roanoke. Va.



Johnson & Johnson, Draggi s Roanoke, Va.

MedicineS.

over my eyesight since I have dis-carded my old glasses and am now using yours. ALEXANDER AGAR, Having purchased the stock and good will of the Hoffman Drug store, No. 129 Salem avenue, I respectfully ask a continuance of the same liberal patronoge heretofore bestowed, promising to keep constantly on hand a full and first-class stock of Drugs and Medicines, together with Toilet and Fancy Articles, Cigars, Etc. Secretary Stationers Board of Trade of New York city.
All eyes fitted and fit guaranteed by Charles Lyle & Co., druggists, Roanoct12 6m

Compounding Prescriptions A Specialty, FRANK COFFMAN.

WHERE TO STOP. THE CITY HOTEL.

Most Conveniently Located. The Rooms Well Ventilated.

TABLE SET WITH THE BEST THE MARKET AFFORDS.

J. O. HANES, - - - - Proprietor.

A CHEAP HOME?

Then Buy a lot of the Etna Land Company, located just east of Glade Spring, in five minutes ride of the city, on the

The cheapest land to be bought. Prices ranging from

W. M. YAGER & CO.

In Jewelry and Silverware.

WM. R. BENNET,

139 SALEM AVENUE, ROANOKE, VIRGINIA: -IS SELLING-

LOWER THAN THE LOWEST ____TO MAKE ROOM FOR____

CHRISTMAS GOODS.

HOTEL ROANOKE, Roanoke, Va.

MAPLE SHADE INN. Pulaski City, Va.

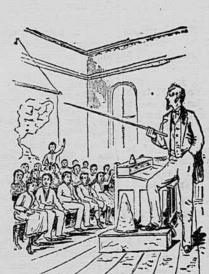
BLUEFIELD INN, Bluefield, W. Va.

The above houses offer superior accommodations to the SHENANDOAH VALLEY RAII. Travelling Public. Sample Rooms for Commercial Men.

FRED. E. FOSTER,

Manager.

OBJECT



Teacher (who is a billiard enthusiast)-"Now, then, what is a 'straight tip?'"
Smart Boy—"A 'straight tip' is when

& MORRIS. GRINBERG

proprietors of the 'Young America" Clair; Horse, say that their stock of

Clothing, Hats and Furnishing Goods, and Boots, Shoes, Trunks and Valices is larger and their prices lower than ever."
In clothing we have really a fine selection for men, youths and boys. In hats the very latest styles, and as to our furnishing goods, they need only to be seen to be appreciated. We have some specially fine underwear selling at remarkably low figures. No trouble to show

RESPECTFULLY,

GRINBERG & MORRIS. H. SILVERTHORN.

IMPORTER AND REPAIRER OF

FINE WATCHES.

OUR REPAIRING DEPARTMENT Is in charge of the very finest workmen that can be had, and we guarantee to do work which cannot be duplicated in the city. Send your watches to

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AND GET FIRST CLASS WORK. -

Manager.